

FY 1998 Technology Deployment in Environmental Management

Solutions of the Future at the INEEL

Site Technology Coordination Group
U.S. Department of Energy, Idaho Operations Office



INEEL

Oxy-Gasoline Torch

Problem: The cutting of carbon steel on D&D projects (equipment, piping, conduit, etc.) is inefficient and expensive.

Baseline Technology: Oxy- acetylene torches are used for the cutting of larger pipes, equipment and structural components made of carbon steel.

Innovative Technology: Oxy-gasoline torches are used as a direct replacement for oxy-acetylene torches.

Comparison: The gasoline torch is much cheaper to operate and is surprisingly more effective at cutting and produces less slag. The fuel in the gasoline torch remains liquid until it reaches the tip of the torch which reduces risk to workers. Work and exposure time is typically reduced from 30% to 300%.

Material Cost Savings: Oxy-acetylene:\$11.40 /ft
Oxy-gasoline: \$ 7.20 /ft
\$4.20 /ft or 37%

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The Idaho National Engineering and Environmental Laboratory

LOCKHEED MARTIN



Oxy-Gasoline Torch

